

Sequence Listing - Page 1

U.S. Serial No. 10/043 572

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT : Neil MILES

(ii) TITLE OF INVENTION : PEACH TREE 'V75074'

(iii) NUMBER OF SEQUENCES : 7

(iv) CORRESPONDENCE ADDRESS :
(A) ADDRESSEE : FLYNN, THIEL,
BOUTELL & TANIS, P.C.
(B) STREET : 2026 Rambling Road
(C) CITY : Kalamazoo
(D) STATE : Michigan
(E) COUNTRY : USA
(F) ZIP : 49008-1631

(v) COMPUTER READABLE FORM :
(A) MEDIUM TYPE : Diskette, 3.5 inches,
1.44 Mb storage
(B) COMPUTER : Gateway
(C) OPERATING SYSTEM : Microsoft Windows 98
(D) SOFTWARE : Word 2000

(vi) CURRENT APPLICATION DATA :
(A) APPLICATION NUMBER : 10/043 572
(B) FILING DATE : January 10, 2002
(C) CLASSIFICATION : Plant

(vii) PRIOR APPLICATION DATA : N/A
(A) APPLICATION NUMBER :
(B) FILING DATE :

(viii) ATTORNEY/AGENT INFORMATION :
(A) NAME : Sidney B. Williams, Jr.
(B) REGISTRATION NUMBER : 24 949
(C) REFERENCE/DOCKET NUMBER : IPPM Case 7

(ix) TELECOMMUNICATION INFORMATION :
(A) TELEPHONE : (269) 381-1156
(B) TELEFAX : (269) 381-5465

Sequence Listing - Page 2

U.S. Serial No. 10/043 572

(2) INFORMATION FOR CPPCT030-A : Sequence ID No. 1
Sequence 5' to 3' : TGAATATTGTTCTCAATTC

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 20
 (B) TYPE :
 (C) STRANDEDNESS :
 (D) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Aranzana et al.
 (B) TITLE : Development and Variability
 : Analysis
 : Of Microsatellite Markers in
 : Peach
 (C) JOURNAL : Plant Breeding
 (D) VOLUME : 121
 (F) PAGES : 87-92
 (G) DATE : 2002
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 3

U.S. Serial No. 10/043 572

(3) INFORMATION FOR CFPCT030-B : Sequence ID No. 2
Sequence 5' to 3' : CTCTAGGCAAGAGATGAGA

(1) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 19
 (B) TYPE :
 (C) STRANDEDNESS :
 (E) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Aranzana et al.
 (B) TITLE : Development and Variability
 Analysis
 Of Microsatellite Markers in
 Peach
 (C) JOURNAL : Plant Breeding
 (D) VOLUME : 121
 (F) PAGES : 87-92
 (G) DATE : 2002
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 4

U.S. Serial No. 10/043 572

(4) INFORMATION FOR Pchcms2-A : Sequence ID No. 3
Sequence 5' to 3' : AGGGTCGTCTCTTTGAC

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 17
 (B) TYPE :
 (C) STRANDEDNESS :
 (F) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Sosinski et al.
 (B) TITLE : Characterization of
 Microsatellite Markers
 In Peach [Prunus persica (L.)
 Batsch]
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 101
 (F) PAGES : 421-428
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 5

U.S. Serial No. 10/043 572

(5) INFORMATION FOR Pchcms2-B : Sequence ID No. 4
Sequence 5' to 3' : CTTTCGTTTCAAGGCCTG

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 17
 (B) TYPE :
 (C) STRANDEDNESS :
 (G) LENGTH :
(ii) MOLECULE TYPE : DNA
(iii) HYPOTHETICAL :
(iv) ANTI-SENSE :
(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :
(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC
(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Sosinski et al.
 (B) TITLE : Characterization of
 Microsatellite Markers
 In Peach [Prunus persica (L.)
 Batsch]
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 101
 (F) PAGES : 421-428
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 6

U.S. Serial No. 10/043 572

(6) INFORMATION FOR Pchcms5-A : Sequence ID No. 5
Sequence 5' to 3' : CGCCCATGACAACTTA

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 17
 (B) TYPE :
 (C) STRANDEDNESS :
 (H) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Sosinski et al.
 (B) TITLE : Characterization of
 Microsatellite Markers
 In Peach [Prunus persica (L.)
 Batsch]
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 101
 (F) PAGES : 421-428
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 7

U.S. Serial No. 10/043 572

(7) INFORMATION FOR Pchcms5-B : Sequence ID No. 6
Sequence 5' to 3' : GTCAAGAGGTACACCAG

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 17
 (B) TYPE :
 (C) STRANDEDNESS :
 (I) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Sosinski et al.
 (B) TITLE : Characterization of
 Microsatellite Markers
 In Peach [Prunus persica (L.)
 Batsch]
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 101
 (F) PAGES : 421-428
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 8

U.S. Serial No. 10/043 572

(8) INFORMATION FOR UDP96-013-A : Sequence ID No. 7
Sequence 5' to 3' : ATTCTTCACTACACGTGCACG

(1) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 21
 (B) TYPE :
 (C) STRANDEDNESS :
 (J) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Cipriani et al.
 (B) TITLE : AC/GT and AG/CT Microsatellite
 Repeats in
 Peach [Prunus persica (L)
 Batsch]: isolation,
 Characterization, and cross-
 species
 Amplification in Prunus
 Theor. Appl. Genet.
 (C) JOURNAL :
 (D) VOLUME : 99
 (F) PAGES : 65-72
 (G) DATE : 1999
 (K) RELEVANT RESIDUES :

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Testolin et al.
 (B) TITLE : Microsatellite DNA in peach
 (Prunus
 persica L. Batsch) and its use in
 Fingerprinting and testing the
 genetic
 Origin of cultivars
 (C) JOURNAL : Genome
 (D) VOLUME : 43
 (F) PAGES : 512-520
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 9

U.S. Serial No. 10/043 572

(9) INFORMATION FOR UDP96-013-B : Sequence ID No. 8
Sequence 5' to 3' : CCCCAGACATACTGTGGCTT

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 20
 (B) TYPE :
 (C) STRANDEDNESS :
 (K) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Cipriani et al.
 (B) TITLE : AC/GT and AG/CT Microsatellite
 Repeats in
 Peach [Prunus persica (L)
 Batsch]: isolation,
 Characterization, and cross-
 species
 Amplification in Prunus
 Theor. Appl. Genet.
 (C) JOURNAL : 99
 (D) VOLUME : 65-72
 (F) PAGES : 1999
 (G) DATE :
 (K) RELEVANT RESIDUES :

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Testolin et al.
 (B) TITLE : Microsatellite DNA in peach
 (Prunus
 persica L. Batsch) and its use in
 Fingerprinting and testing the
 genetic
 Origin of cultivars
 (C) JOURNAL : Genome
 (D) VOLUME : 43
 (F) PAGES : 512-520
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 10

U.S. Serial No. 10/043 572

(10) INFORMATION FOR UDP98-407-A : Sequence ID No. 9
Sequence 5' to 3' : AGCGGCAGGCTAAATATCAA

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 20
 (B) TYPE :
 (C) STRANDEDNESS :
 (L) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Cipriani et al.
 (B) TITLE : AC/GT and AG/CT Microsatellite
 Repeats in
 Peach [Prunus persica (L)
 Batsch]: isolation,
 Characterization, and cross-
 species
 Amplification in Prunus
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 99
 (F) PAGES : 65-72
 (G) DATE : 1999
 (K) RELEVANT RESIDUES :

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Testolin et al.
 (B) TITLE : Microsatellite DNA in peach
 (Prunus
 persica L. Batsch) and its use in
 Fingerprinting and testing the
 genetic
 Origin of cultivars
 (C) JOURNAL : Genome
 (D) VOLUME : 43
 (F) PAGES : 512-520
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 11

U.S. Serial No. 10/043 572

(11) INFORMATION FOR UDP98-407-B : Sequence ID No. 10
Sequence 5' to 3' : AATCGCCGATCAAAGCAAC

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 19
 (B) TYPE :
 (C) STRANDEDNESS :
 (M) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Cipriani et al.
 (B) TITLE : AC/GT and AG/CT Microsatellite
 Repeats in
 Peach [Prunus persica (L)
 Batsch]: isolation,
 Characterization, and cross-
 species
 Amplification in Prunus
 Theor. Appl. Genet.
 (C) JOURNAL : 99
 (D) VOLUME : 65-72
 (E) PAGES : 1999
 (F) DATE :
 (G) RELEVANT RESIDUES :
 (H) :
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(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Testolin et al.
 (B) TITLE : Microsatellite DNA in peach
 (Prunus
 persica L. Batsch) and its use in
 Fingerprinting and testing the
 genetic
 Origin of cultivars
 (C) JOURNAL : Genome
 (D) VOLUME : 43
 (E) PAGES : 512-520
 (F) DATE : 2000
 (G) RELEVANT RESIDUES :
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 (X) :
 (Y) :
 (Z) :

Sequence Listing - Page 12

U.S. Serial No. 10/043 572

(12) INFORMATION FOR BPPCT025-A : Sequence ID No. 11
Sequence 5' to 3' : TCCTGCGTAGAAGAAGGTAGC

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 21
 (B) TYPE :
 (C) STRANDEDNESS :
 (N) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Dirlewanger et al.
 (B) TITLE : Development of microsatellite
 markers
 : In peach (Prunus persica (L.)
 Batsch]
 : And their use in genetic
 diversity
 : Analysis in peach and sweet
 cherry
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 105
 (F) PAGES : 127-138
 (G) DATE : 2002
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 13

U.S. Serial No. 10/043 572

(13) INFORMATION FOR BPPCT025-B : Sequence ID No. 12
Sequence 5' to 3' : CGACATAAAGTCCAAATGGC

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 20
 (B) TYPE :
 (C) STRANDEDNESS :
 (O) LENGTH :

(ii) MOLECULE TYPE : DNA

(iii) HYPOTHETICAL :

(iv) ANTI-SENSE :

(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :

(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC

(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Dirlewanger et al.
 (B) TITLE : Development of microsatellite
 markers
 : In peach [Prunus persica (L.)
 Batsch]
 : And their use in genetic
 diversity
 : Analysis in peach and sweet
 cherry
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 105
 (F) PAGES : 127-138
 (G) DATE : 2002
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 14

U.S. Serial No. 10/043 572

(14) INFORMATION FOR Pchgms1-A : Sequence ID No. 13
Sequence 5' to 3' : GGGTAAATATGCCCATTGTGCAATC

(i) SEQUENCE CHARACTERISTICS :
 (A) LENGTH : 25
 (B) TYPE :
 (C) STRANDEDNESS :
 (P) LENGTH :
(ii) MOLECULE TYPE : DNA
(iii) HYPOTHETICAL :
(iv) ANTI-SENSE :
(v) ORIGINAL SOURCE :
 (A) ORGANISM : ARTIFICIAL
 (B) INDIVIDUAL/ISOLATE :
 (C) CELL TYPE :
(vi) IMMEDIATE SOURCE :
 (B) CLONE :
 (C) OTHER : SYNTHETIC
(x) PUBLICATION INFORMATION :
 (A) AUTHORS : Sosinski et al.
 (B) TITLE : Characterization of
 Microsatellite Markers
 In Peach [Prunus persica (L.)
 Batsch]
 (C) JOURNAL : Theor. Appl. Genet.
 (D) VOLUME : 101
 (E) PAGES : 421-428
 (G) DATE : 2000
 (K) RELEVANT RESIDUES :

Sequence Listing - Page 15

U.S. Serial No. 10/043 572

(15) INFORMATION FOR Pchgms1-B	:	Sequence ID No. 14
Sequence 5' to 3'	:	GGATCATTGAACTACGTCAATCCTC
(i) SEQUENCE CHARACTERISTICS	:	
(A) LENGTH	:	25
(B) TYPE	:	
(C) STRANDEDNESS	:	
(Q) LENGTH	:	
(ii) MOLECULE TYPE	:	DNA
(iii) HYPOTHETICAL	:	
(iv) ANTI-SENSE	:	
(v) ORIGINAL SOURCE	:	
(A) ORGANISM	:	ARTIFICIAL
(B) INDIVIDUAL/ISOLATE	:	
(C) CELL TYPE	:	
(vi) IMMEDIATE SOURCE	:	
(B) CLONE	:	
(C) OTHER	:	SYNTHETIC
(x) PUBLICATION INFORMATION	:	
(A) AUTHORS	:	Sosinski et al.
(B) TITLE	:	Characterization of Microsatellite Markers In Peach [Prunus persica (L.) Batsch]
(C) JOURNAL	:	Theor. Appl. Genet.
(D) VOLUME	:	101
(F) PAGES	:	421-428
(G) DATE	:	2000
(K) RELEVANT RESIDUES	:	